Ay-ay, Andrei Gabriel M.
ME8_1

In this exercise, we'll learn the basics of pulling images, starting, stopping, and removing containers.

```
Administrator: Command Prompt - docker  pull ubuntu:16.04                                        —    □    ×
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10      ubuntu-16-nginx-php-phpmyadmin-mariadb-10       11
    [OK]
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4           ubuntu-16-nginx-php-5.6-wordpress-4             9
    [OK]
1and1internet/ubuntu-16-nginx-php-5.6                       ubuntu-16-nginx-php-5.6                         8
    [OK]
1and1internet/ubuntu-16-apache-php-7.1                      ubuntu-16-apache-php-7.1                        7
    [OK]
pivotaldata/ubuntu                                          A quick freshening-up of the base Ubuntu doc…  4

1and1internet/ubuntu-16-nginx-php-7.0                       ubuntu-16-nginx-php-7.0                         4
    [OK]
pivotaldata/ubuntu16.04-build                               Ubuntu 16.04 image for GPDB compilation         2

1and1internet/ubuntu-16-php-7.1                             ubuntu-16-php-7.1                               1
    [OK]
smartentry/ubuntu                                           ubuntu with smartentry                         1
    [OK]
1and1internet/ubuntu-16-sshd                                ubuntu-16-sshd                                 1
    [OK]
pivotaldata/ubuntu-gpdb-dev                                 Ubuntu images for GPDB development              1


C:\WINDOWS\system32>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Downloading [=>                                        ]  1.416MB/46.25MB
fb52bde70123: Download complete
64788f86be3f: Download complete
33f6d5f2e001: Waiting
```

```
C:\WINDOWS\system32>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Downloading [=============>                         ]  11.45MB/42.79MB
40bca54f5968: Download complete
61464f23390e: Download complete
d99f0bcd5dc8: Download complete
120db6f90955: Download complete
```

```
Administrator: Command Prompt                                                                   —    □    ×
pivotaldata/ubuntu-gpdb-dev                                 Ubuntu images for GPDB development              1

C:\WINDOWS\system32>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde70123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbc1f342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\WINDOWS\system32>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\WINDOWS\system32>docker images
REPOSITORY    TAG       IMAGE ID       CREATED       SIZE
ubuntu        16.04     aefd7f02ae24   3 weeks ago   134MB
ubuntu        16.10     7d3f705d307c   3 years ago   107MB

C:\WINDOWS\system32>
```

```
open-liberty                                        Open Liberty multi-architecture images based…  45        [OK]
ubuntu-debootstrap                                  debootstrap --variant=minbase --components=m…  44        [OK]
i386/ubuntu                                         Ubuntu is a Debian-based Linux operating sys…  25
nuagebec/ubuntu                                     Simple always updated Ubuntu docker images w…  24               [OK]
solita/ubuntu-systemd                               Ubuntu + systemd                               24               [OK]
1and1internet/ubuntu-16-apache-php-5.6              ubuntu-16-apache-php-5.6                       14               [OK]
1and1internet/ubuntu-16-apache-php-7.0              ubuntu-16-apache-php-7.0                       13               [OK]
1and1internet/ubuntu-16-nginx-php-phpmyadmin-mariadb-10  ubuntu-16-nginx-php-phpmyadmin-mariadb-10  11          [OK]
1and1internet/ubuntu-16-nginx-php-5.6-wordpress-4   ubuntu-16-nginx-php-5.6-wordpress-4            9                [OK]
1and1internet/ubuntu-16-nginx-php-5.6               ubuntu-16-nginx-php-5.6                        8                [OK]
1and1internet/ubuntu-16-apache-php-7.1              ubuntu-16-apache-php-7.1                       7                [OK]
pivotaldata/ubuntu                                  A quick freshening-up of the base Ubuntu doc…  4
1and1internet/ubuntu-16-nginx-php-7.0               ubuntu-16-nginx-php-7.0                        4                [OK]
pivotaldata/ubuntu16.04-build                       Ubuntu 16.04 image for GPDB compilation        2
1and1internet/ubuntu-16-php-7.1                     ubuntu-16-php-7.1                              1                [OK]
smartentry/ubuntu                                   ubuntu with smartentry                         1                [OK]
1and1internet/ubuntu-16-sshd                        ubuntu-16-sshd                                 1                [OK]
pivotaldata/ubuntu-gpdb-dev                         Ubuntu images for GPDB development             1

C:\WINDOWS\system32>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
92473f7ef455: Pull complete
fb52bde70123: Pull complete
64788f86be3f: Pull complete
33f6d5f2e001: Pull complete
Digest: sha256:eed7e1076bbc1f342c4474c718e5438af4784f59a4e88ad687dbb98483b59ee4
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\WINDOWS\system32>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\WINDOWS\system32>docker images
REPOSITORY     TAG        IMAGE ID      CREATED        SIZE
ubuntu         16.04      aefd7f02ae24  3 weeks ago    134MB
ubuntu         16.10      7d3f705d307c  3 years ago    107MB

C:\WINDOWS\system32>docker rmi 7d3f705d307c
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\WINDOWS\system32>docker images
REPOSITORY     TAG        IMAGE ID      CREATED        SIZE
ubuntu         16.04      aefd7f02ae24  3 weeks ago    134MB

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker images
REPOSITORY      TAG       IMAGE ID       CREATED       SIZE
ubuntu          16.04     aefd7f02ae24   3 weeks ago   134MB

C:\WINDOWS\system32>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE     COMMAND     CREATED     STATUS     PORTS     NAMES

C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE         COMMAND              CREATED          STATUS                 PORTS     NAMES
933b9159241a   ubuntu:16.04  "/bin/echo 'Hello wo…"  55 seconds ago   Exited (0) 55 seconds ago           condescend
ing_brahmagupta

C:\WINDOWS\system32>docker run ubuntu:16.04 /bin/bash

C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE         COMMAND              CREATED          STATUS                 PORTS     NA
MES
6c9dfd9ab6dd   ubuntu:16.04  "/bin/bash"          13 seconds ago   Exited (0) 11 seconds ago           fo
cused_allen
933b9159241a   ubuntu:16.04  "/bin/echo 'Hello wo…"  About a minute ago   Exited (0) About a minute ago           co
ndescending_brahmagupta

C:\WINDOWS\system32>
```

Administrator: Command Prompt

```
C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE         COMMAND              CREATED          STATUS                 PORTS     NAMES
933b9159241a   ubuntu:16.04  "/bin/echo 'Hello wo…"  55 seconds ago   Exited (0) 55 seconds ago           condescend
ing_brahmagupta

C:\WINDOWS\system32>docker run ubuntu:16.04 /bin/bash

C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE         COMMAND              CREATED          STATUS                 PORTS     NA
MES
6c9dfd9ab6dd   ubuntu:16.04  "/bin/bash"          13 seconds ago   Exited (0) 11 seconds ago           fo
cused_allen
933b9159241a   ubuntu:16.04  "/bin/echo 'Hello wo…"  About a minute ago   Exited (0) About a minute ago           co
ndescending_brahmagupta

C:\WINDOWS\system32>docker run -it ubuntu:16.04 /bin/bash
root@75ffb03dffd7:/# pwd
/
root@75ffb03dffd7:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@75ffb03dffd7:/# cd
root@75ffb03dffd7:~# cd bin
bash: cd: bin: No such file or directory
root@75ffb03dffd7:~# cd /root
root@75ffb03dffd7:~# cd /bin
root@75ffb03dffd7:/bin# cd ..
root@75ffb03dffd7:/# exit
exit

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker run -d ubuntu:16.04 /bin/sleep 3600
76eba3951eb4de42af906ab6b57d1a90fa9f860a32ab9ef8210588f0801a3aa6

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE          COMMAND           CREATED          STATUS          PORTS       NAMES
76eba3951eb4   ubuntu:16.04   "/bin/sleep 3600"  9 seconds ago   Up 8 seconds                flamboyant_matsumoto

C:\WINDOWS\system32>docker exec -it be7 /bin/bash
Error: No such container: be7

C:\WINDOWS\system32>docker exec -it 76e /bin/bash
root@76eba3951eb4:/# ps aux
USER       PID %CPU %MEM    VSZ   RSS TTY       STAT START   TIME COMMAND
root         1  0.0  0.0   4372   696 ?         Ss   13:24   0:00 /bin/sleep 3600
root         8  0.2  0.0  18232  3208 pts/0     Ss   13:25   0:00 /bin/bash
root        18  0.0  0.0  34420  2820 pts/0     R+   13:25   0:00 ps aux
root@76eba3951eb4:/# exit
exit

C:\WINDOWS\system32>
```
```
C:\WINDOWS\system32>docker exec -it 76e /bin/bash
root@76eba3951eb4:/# ps aux
USER       PID %CPU %MEM    VSZ   RSS TTY       STAT START   TIME COMMAND
root         1  0.0  0.0   4372   696 ?         Ss   13:24   0:00 /bin/sleep 3600
root         8  0.2  0.0  18232  3208 pts/0     Ss   13:25   0:00 /bin/bash
root        18  0.0  0.0  34420  2820 pts/0     R+   13:25   0:00 ps aux
root@76eba3951eb4:/# exit
exit

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE          COMMAND           CREATED          STATUS          PORTS       NAMES
76eba3951eb4   ubuntu:16.04   "/bin/sleep 3600"  2 minutes ago   Up 2 minutes                flamboyant_matsumoto

C:\WINDOWS\system32>docker stop 76eba
76eba

C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE          COMMAND           CREATED          STATUS                     PORTS       NAMES
76eba3951eb4   ubuntu:16.04   "/bin/sleep 3600"  3 minutes ago   Exited (137) 8 seconds ago             flamboyant
_matsumoto
```

`docker rm [ID]` only removes that particular container, others are still there waiting to be removed

```
C:\WINDOWS\system32>docker rm 76eba
76eba
```
```
C:\WINDOWS\system32>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\WINDOWS\system32>docker ps -a
CONTAINER ID   IMAGE          COMMAND           CREATED          STATUS          PORTS       NAMES
```